Progress Energy

September 21, 2009

Charles L.A. Terreni
Chief Clerk and Administrator
South Carolina Public Service Commission
Post Office Drawer 11649
Columbia, South Carolina 29211

Re: Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc.
Power Plant Performance Report
Docket No. 2006-224-E

Dear Mr. Terreni:

Enclosed is the Power Plant Performance Report for Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc. for the month of August 2009.

Sincerely,

Len S. Anthony (by dhs)

Len S. Anthony
General Counsel
Progress Energy Carolinas, Inc.

LSA/dhs
Enclosures
45612

c: John Flitter (ORS)

Progress Energy Service Company, LLC
P.O. Box 1551
Raleigh, NC 27602

August 2009

The following units had no off-line outages during the month of August:

Brunswick Unit 1
Brunswick Unit 2
Harris Unit 1
Robinson Unit 2
Mayo Unit 1
Roxboro Unit 3
Roxboro Unit 4

August 2009

Roxboro Unit 2

Full Forced Outage

A. Duration: The unit was taken out of service at 4:17 on August 12, and was returned to service at 8:47 on August 16, a duration of 100 hours and 30 minutes.

B. Cause: Boiler Tube Leak

C. Explanation: The unit was taken out of service to investigate and repair a tube leak in the superheater section of the boiler.

D. Corrective Action: Weld repairs were made to correct the tube leak, and the unit was returned to service.

	Month of August 2009		Twelve Month Summary		See Notes*
MDC	938	MW	938	MW	1
Period Hours	744	HOURS	8,760	HOURS	
Net Generation	679,296	MWH	8,079,978	MWH	2
Capacity Factor	97.34	%	98.33	%	
Equivalent Availability	97.43	%	96.54	%	
Output Factor	97.34	%	101.00	%	
Heat Rate	10,670	BTU/KWH	10,422	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	123,816	1.51	3
Partial Scheduled	5,209	0.75	36,868	0.45	4
Full Forced	0	0.00	93,206	1.13	5
Partial Forced	13,367	1.92	31,478	0.38	6
Economic Dispatch	0	0.00	0	0.00	7
Possible MWH	697,872		8,216,880		8

* See 'Notes for Nuclear Units' filed with the January 2009 report.
** Gross of Power Agency

	Month of August 2009		Twelve Month Summary		See Notes*
MDC	920	MW	926	MW	1
Period Hours	744	HOURS	8,760	HOURS	
Net Generation	686,770	MWH	6,374,542	MWH	2
Capacity Factor	100.33	%	78.61	%	
Equivalent Availability	99.19	%	77.63	%	
Output Factor	100.33	%	97.71	%	
Heat Rate	10,692	BTU/KWH	10,641	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	1,336,484	16.48	3
Partial Scheduled	5,562	0.81	51,740	0.64	4
Full Forced	0	0.00	243,418	3.00	5
Partial Forced	0	0.00	185,878	2.29	6
Economic Dispatch	0	0.00	0	0.00	7
Possible MWH	684,480		8,108,840		8

* See 'Notes for Nuclear Units' filed with the January 2009 report.
** Gross of Power Agency

	Month of August 2009		Twelve Month Summary		See Notes*
MDC	900	MW	900	MW	1
Period Hours	744	HOURS	8,760	HOURS	
Net Generation	678,090	MWH	7,510,941	MWH	2
Capacity Factor	101.27	%	95.27	%	
Equivalent Availability	100.00	%	93.06	%	
Output Factor	101.27	%	101.65	%	
Heat Rate	10,857	BTU/KWH	10,731	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	495,270	6.28	3
Partial Scheduled	0	0.00	52,237	0.66	4
Full Forced	0	0.00	0	0.00	5
Partial Forced	0	0.00	103	0.00	6
Economic Dispatch	0	0.00	0	0.00	7
Possible MWH	669,600		7,884,000		8

* See 'Notes for Nuclear Units' filed with the January 2009 report.
** Gross of Power Agency

	Month of August 2009		Twelve Month Summary		See Notes*
MDC	710	MW	710	MW	1
Period Hours	744	HOURS	8,760	HOURS	
Net Generation	542,487	MWH	5,407,270	MWH	2
Capacity Factor	102.70	%	86.94	%	
Equivalent Availability	100.00	%	82.78	%	
Output Factor	102.70	%	104.18	%	
Heat Rate	10,935	BTU/KWH	10,740	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	782,195	12.58	3
Partial Scheduled	0	0.00	38,498	0.62	4
Full Forced	0	0.00	247,080	3.97	5
Partial Forced	0	0.00	3,299	0.05	6
Economic Dispatch	0	0.00	0	0.00	7
Possible MWH	528,240		6,219,600		8

* See 'Notes for Nuclear Units' filed with the January 2009 report.

	Month of August 2009		Twelve Month Summary		See Notes*
MDC	742	MW	742	MW	1
Period Hours	744	HOURS	8,760	HOURS	
Net Generation	402,825	MWH	3,989,864	MWH	2
Capacity Factor	72.97	%	61.38	%	
Equivalent Availability	99.82	%	86.38	%	
Output Factor	72.97	%	69.59	%	
Heat Rate	11,181	BTU/KWH	10,713	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	706,929	10.88	3
Partial Scheduled	0	0.00	83,502	1.28	4
Full Forced	0	0.00	59,928	0.92	5
Partial Forced	1,013	0.18	35,074	0.54	6
Economic Dispatch	148,210	26.85	1,624,622	24.99	7
Possible MWH	552,048		6,499,920		8

* See 'Notes for Fossil Units' filed with the January 2009 report.
** Gross of Power Agency

	Month of August 2009		Twelve Month Summary		See Notes*
MDC	662	MW	665	MW	1
Period Hours	744	HOURS	8,760	HOURS	
Net Generation	354,765	MWH	4,296,443	MWH	2
Capacity Factor	72.03	%	73.75	%	
Equivalent Availability	81.88	%	86.56	%	
Output Factor	83.28	%	84.03	%	
Heat Rate	8,956	BTU/KWH	8,777	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	31,776	6.45	433,286	7.44	3
Partial Scheduled	0	0.00	49,024	0.84	4
Full Forced	34,755	7.06	223,341	3.83	5
Partial Forced	22,715	4.61	77,636	1.33	6
Economic Dispatch	48,517	9.85	745,752	12.80	7
Possible MWH	492,528		5,825,400		8

* See 'Notes for Fossil Units' filed with the January 2009 report.

	Month of August 2009		Twelve Month Summary		See Notes*
MDC	695	MW	698	MW	1
Period Hours	744	HOURS	8,760	HOURS	
Net Generation	344,610	MWH	4,110,368	MWH	2
Capacity Factor	66.65	%	67.19	%	
Equivalent Availability	99.75	%	93.66	%	
Output Factor	66.65	%	69.53	%	
Heat Rate	10,654	BTU/KWH	10,705	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	188,528	3.08	3
Partial Scheduled	680	0.13	96,968	1.59	4
Full Forced	0	0.00	11,996	0.20	5
Partial Forced	592	0.11	91,299	1.49	6
Economic Dispatch	171,198	33.11	1,618,331	26.45	7
Possible MWH	517,080		6,117,400		8

* See 'Notes for Fossil Units' filed with the January 2009 report.

	Month of August 2009		Twelve Month Summary		See Notes*
MDC	698	MW	698	MW	1
Period Hours	744	HOURS	8,760	HOURS	
Net Generation	408,627	MWH	4,326,516	MWH	2
Capacity Factor	78.69	%	70.76	%	
Equivalent Availability	96.85	%	93.16	%	
Output Factor	78.69	%	75.15	%	
Heat Rate	11,950	BTU/KWH	11,136	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	299,151	4.89	3
Partial Scheduled	5,566	1.07	38,861	0.64	4
Full Forced	0	0.00	0	0.00	5
Partial Forced	10,784	2.08	79,959	1.31	6
Economic Dispatch	94,335	18.17	1,369,993	22.41	7
Possible MWH	519,312		6,114,480		8

* See 'Notes for Fossil Units' filed with the January 2009 report.
** Gross of Power Agency

Run Date 9/18/2009

Plant	Unit	Current MW Rating	January 2008 - December 2008	August 2009	January 2009 - August 2009
Asheville	1	191	67.84	68.76	73.72
Asheville	2	185	64.83	58.90	61.91
Cape Fear	5	144	69.98	65.15	71.37
Cape Fear	6	172	61.62	71.65	65.12
Lee	1	74	62.88	69.75	55.25
Lee	2	77	50.49	60.66	45.98
Lee	3	246	38.21	68.59	64.76
Mayo	1	742	62.59	72.97	61.78
Robinson	1	174	65.88	43.87	58.29
Roxboro	1	369	69.79	84.21	84.27
Roxboro	2	662	78.24	72.03	74.86
Roxboro	3	695	66.00	66.65	67.71
Roxboro	4	698	70.32	78.69	72.10
Sutton	1	93	46.46	54.70	39.98
Sutton	2	104	55.49	59.06	45.89
Sutton	3	403	56.73	62.24	53.09
Weatherspoon	1	48	42.83	16.27	13.03
Weatherspoon	2	49	41.04	13.90	15.85
Weatherspoon	3	75	56.58	30.88	25.88
Fossil System Total		5,201	64.48	68.12	64.95
Brunswick	1	938	85.33	97.34	100.72
Brunswick	2	920	95.43	100.33	72.92
Harris	1	900	98.94	101.27	91.62
Robinson Nuclear	2	710	87.02	102.70	104.36
Nuclear System Total		3,468	91.90	100.25	91.73
Total System		8,669	75.45	80.98	75.66

Amended SC Fuel Rule
Related to Nuclear Operations

There shall be a rebuttable presumption that an electrical utility made every reasonable effort to minimize cost associated with the operation of its nuclear generation system if the utility achieved a net capacity factor of ≥ 92.5% during the 12 month period under review. For the test period April 1, 2009 through August 31, 2009, actual period to date performance is summarized below:

Period to Date: April 1, 2009 to August 31, 2009

Nuclear System Capacity Factor Calculation (Based on net generation)

A.. Nuclear system actual generation for SCPSC test period	A =	11,539,260 MWH
B. Total number of hours during SCPSC test period	B =	3,672 hours
C. Nuclear system MDC during SCPSC test period (see page 2)	C =	3,468 MW
D. Reasonable nuclear system reductions (see page 2)	D =	1,397,688 MWH

A. SC Fuel Case nuclear system capacity factor: [(A + D) / (B + C)] * 100 = 101.6%

NOTE:
If Line Item E > 92.5%, presumption of utility's minimum cost of operation.
If Line Item E < 92.5%, utility has burden of proof of reasonable operations.

Amended SC Fuel Rule
Nuclear System Capacity Factor Calculation
Reasonable Nuclear System Reductions
Period to Date: April 1, 2009 to August 31, 2009

Nuclear Unit Name and Designation	BNP Unit # 1	BNP Unit # 2	HNP Unit # 1	RNP Unit # 2	Nuclear System
Unit MDC	938 MW	920 MW	900 MW	710 MW	3,468 MW
Reasonable refueling otuage time (MWH)	0	632,331	495,270	0	
Reasonable maintenance, repair, and equipment replacement outage time (MWH)	20,282	136,237	0	36,212	
Reasonable coast down power reductions (MWH)	0	0	24,856	0	
Reasonable power ascension power reductions (MWH)	0	20,440	20,300	0	
Prudent NRC required testing outages (MWH)	6,037	5,723	0	0	
SCPSC identified outages not directly under utility control (MWH)	0	0	0	0	
Acts of Nature reductions (MWH)	0	0	0	0	
Reasonable nuclear reduction due to low system load (MWH)	0	0	0	0	
Unit total excluded MWH	26,319	794,731	540,426	36,212	
Total reasonable outage time exclusions [carry to Page 1, Line D]					1,397,688